

### ABSTRACT OF THE DISCLOSURE

A pulse photometer adapted to observe a pulse wave of a living body is disclosed. A light emitter is adapted to irradiate the living body with a first light beam having a first wavelength and a second light beam having a second wavelength which is different from the first wavelength. A converter is operable to convert the first light beam and the second light beam, which have been reflected or transmitted from the living body, into a first data set corresponding to the first wavelength and a second data set corresponding to the second wavelength. A processor is operable to process the first data set and the second data set with a rotating matrix to separate a signal component and a noise component contained in the pulse wave.